TABLE I. CHARACTERISTICS

PARAMETER	VALUE
Calibration Resistance at °C	125 Ohms or 500 Ohms
Resistance Tolerance	±1%
Resistance - Temperature Relationship	See Table II
Dissipation Constant	27 milliwatts, minimum
Thermal Time Constant	Ø.5 seconds, maximum
Operating Temperature Range	-26ذC to + 5ØØ°C

\*Printed copies of this document may not be current and should not be relied on for official purposes. The current version is always in the DMIE Information System at <a href="http://dmie">http://dmie</a> \* NOTES:

1.	Part marking shall be in accordance with	CS506099.

Pa	rt Number Example	<u>ST11784</u>	<u>Y</u> <u>W</u>	<u>R</u> <u>C</u>	<u>1250</u> F
	Basic drawing number —				
*	Part Type		_		
	Element Type				
	Configuration —			<b>-</b> □	
**	Calibration —				
	Resistance (See CS506099)				
	Resistance Tolerance				

- \* Y in Part type indicates engineering model sensors & thermistors (See CS506099)
- \*\* Only calibration schedule C is available for this ST
- 2. Parts shall meet the requirements of Tables I and II.
- 3. Dimensions are in inches, unless otherwise specified.
- 4. As a minimum, each sensor shall be marked with the part serial number. In addition, a tag shall be placed in the package identifying the device with the JPL part number, the 0°C calibration resistance, the manufacturer's name and data code.
- 5. This drawing takes precedence over documents referenced herein.
- 6. Parts depicted on this drawing shall be in accordance with the procurement specification and as specified herein.
- 7. All measurements and calibration shall be made on the platinum leads within 0.260 inch of the sensor body.

REVISION: D AF	PPROVED BY: L. Herin	- A	DATE:	3-16-93		
APPROVED SOURCE(S)   ONLY THE ITEM LISTED IN THE						
VENDOR PART NO.	VENDOR	JPL PART NO.		URCE BLOCK AND		
SIMILAR TO: STYLE 118AKT (REFERENCE)	ROSEMOUNT INC. EAGAN, MINN. CAGE NO.: 60678	SEE NOTE 1	ADDRESS, AND EVALUATED AN JET PROPULSIO DELEGATED AL ITEM SHALL NO PRIOR EVALUA	VENDOR NAME, ) PART NUMBER HAS BEN ID APPROVED BY THE ON LABORATORY OR ITS LTENATE. A SUBSTITUTE OT BE USED WITHOUT LTION AND APPROVAL BY LEGATED ALTERNATE.		
JPL PROPULSIO	N LABORATORY CALIFORNIA II	NSTITUTE OF	TECHNOLOG	<b>GY</b> CAGE NO. 23835		
Procurement specification: CS5Ø6Ø99 TITLE: STANDARD PA						
Screening specification: ZPP-2Ø73-GEN	SENSOR, SURFACE TEMP PLATINUM RESISTA	ST 11	1784			
Custodian: Standards Group Design Section 356	SQUARE, MINIATU	SHEE	T 1 OF 3			
FILE: (Sec.514): F:\USERS\514\SPECS\ACT-DETL\ST11784.D (Sec. 356): UNCLASSIFIED						

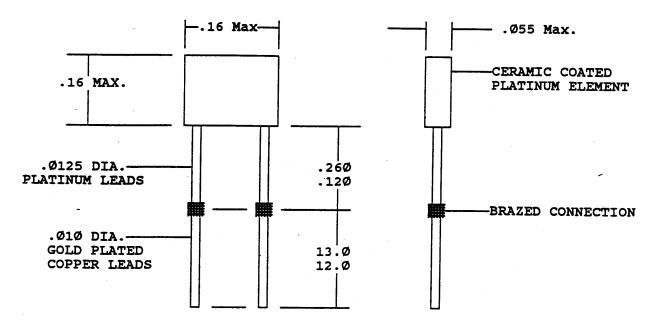


Figure 1. Outline/Dimensions.

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ST 11784 REV. D TITLE: SENSOR, SURFACE TEMPERATURE,		ST	REV.		
SHEET 2 OF 3			PLATINUM RESISTANCE, SQUARE, MINIATURE	SHEET	

## TABLE II RESISTANCE - TEMPERATURE CHARACTERISTICS

mmomp avec	DECTORANCE	DECTOR:	T movement area	DECTOR: VICE	nna====
TEMPERATURE (°C)	RESISTANCE 1250	RESISTANCE 500Ω	TEMPERATURE (°C)	RESISTANCE 125Ω	RESISTANCE
(30)	12511	30011	(°C)	12511	500Ω
-26Ø	Ø.29	1.15	40	144.75	579.00
-259	Ø.32	1.28	5Ø	149.65	598.59
-258	Ø.36	1.43	6Ø	154.57	618.13
-257	Ø.41	1.62	7Ø	159.4Ø	637.6Ø
-256	Ø.46	1.85	8Ø	164.25	657.Ø1
-255	Ø.53	2.11	9Ø	169.09	676.36
-254	Ø.61	2.42	100	173.91	695.65
-253	Ø.69	2.77	110	178.72	714.88
-252	Ø.8Ø	3.18	120	183.51	734.05
-251	Ø.91	3.64	13Ø	188.29	753.16
-25Ø	1.04	4.15	140	193.05	772.21
-245	1.9Ø	7.59	15Ø	197.8Ø	791.2Ø
-240	3.13	12.53	16Ø	202.53	810.12
-235	4.73	18.91	17Ø	207.25	828.99
-23Ø	6.63	26.51	18Ø	211.95	847.8Ø
-225	8.78	35.10	190	216.64	866.55
-22Ø	11.11	44.46	200	221.31	885.24
-215	13.59	54.36	210	225.97	9Ø3.87
-21Ø	16.16	64.65	22Ø	230.61	922.44
-2Ø5	18.80	75.2Ø	23Ø	235.24	940.95
-200	21.84	85.91	24Ø	239.85	959.4Ø
-195	24.18	96.72	25Ø	244.45	977.79
-19Ø	26.89	107.57	260	249.03	996.13
-185	29.61	118.44	27Ø	253.6Ø	1014.40
-18Ø	32.20	129.30	28Ø	258.15	1032.61
-175	35.04	140.14	290	262.69	1050.77
-17Ø	37.61	15Ø.41	300	267.22	1068.86
-16Ø	42.98	171.91	310	271.73	1086.90
-15Ø	48.31	193.24	320	276.22	1104.87
-14Ø	53.61	214.42	330	280.70	1122.79
-13Ø -12Ø	58.87 64.09	235.45 256.35	34Ø 35Ø	285.16 289.61	1140.65
-110	69.29	277.13	360	294.05	1158.45 1176.19
-100	74.45	297.81	37Ø	294.05	11/6.19
- 90	79.60	318.38	37Ø 38Ø	302.87	1211.49
- 8Ø	84.72	338.87	390	307.26	1211.49
- 7Ø	89.82	359.27	400	311.64	1246.55
- 60	94.90	379.59	410	316.00	1246.55
- 5Ø	99.96	399.84	420	320.35	1281.37
- 40	105.00	420.01	430	324.68	1298.69
- 40 - 30	110.03	440.11	440	328.99	1315.95
- 3Ø - 2Ø	115.04	460.14	450	333.29	1313.95
- 10	120.03	480.10	460	337.58	1350.29
- 10 Ø	125.00	500.00	47Ø	341.85	1367.37
1	129.96	519.84	48Ø	346.10	1384.39
1Ø 2Ø	129.96	539.62	490	350.34	1401.35
30	134.91	559.34	500	354.57	1401.35
J.	139.04	333.34	777		1410.23

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